

**SYSTEM AND METHOD FOR PROVIDING A MEDICAL LEAD BODY  
HAVING CONDUCTORS THAT ARE WOUND IN OPPOSITE DIRECTIONS**

**ABSTRACT OF THE DISCLOSURE**

5           An implantable medical lead and lead body, method of  
manufacturing the same, and a system and method for stimulating a  
portion of a body are disclosed. A lead body assembly is formed  
by preparing a first layer unitary body comprising a first  
plurality of conductors wound in a first direction. An inner  
10 layer of extrusion material is placed on the first layer unitary  
body. A second plurality of conductors coated with extrusion  
material is placed on the inner layer. The second plurality of  
conductors is wound in a second opposite direction. An outer  
layer of extrusion material is placed over the second plurality  
15 of conductors. Heat shrink tubing is placed over the assembly.  
The extrusion material is heated and melted and compressed around  
the conductors. When the heat shrink tubing is removed, the  
solidified extrusion material forms a protective wall that  
encapsulates the conductors in the lead body.